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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/560,525	03/14/2006	Jurgen Schulz-Harder	A-9806	6395
20741 7590 07/18/2008 HOFFMAN WASSON & GITLER, P.C CRYSTAL CENTER 2, SUITE 522 2461 SOUTH CLARK STREET			EXAMINER	
			CAZAN, LIVIUS RADU	
	VA 22202-3843		ART UNIT	PAPER NUMBER
			3729	
			MAIL DATE	DELIVERY MODE
			07/18/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/560,525	SCHULZ-HARDER ET AL.				
Office Action Summary	Examiner	Art Unit				
	LIVIUS R. CAZAN	3729				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
	arch 2006					
	Responsive to communication(s) filed on <u>14 March 2006</u> . This action is FINAL . 2b) This action is non-final.					
	<i>,</i> —					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under £	x pane Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>27-49</u> is/are pending in the application	4) Claim(s) 27-49 is/are pending in the application.					
, <u> </u>	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are allowed.						
7) Claim(s) is/are rejected.						
· · · · · · · · · · · · · · · · · · ·						
8) Claim(s) <u>27-49</u> are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.33(a).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
TT/E THE CAUTOR declaration is objected to by the Ex-	anniner. Note the attached Office	Action of format 10-102.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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DETAILED ACTION

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Election/Restrictions

1. This application contains claims directed to more than one species of the generic

invention. These species are deemed to lack unity of invention because they are not so

linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Group A:

A1: metal area formed by direct copper bonding or active soldering

A2: metal area formed by a thick film technology/process

A3: metal area formed using the Mo-Mn process, a W process, an LTCC

process, or combinations thereof

Group B:

B1: heating effected by means of an energy beam or laser

B2: heating effected by means of a hot gas beam, a flame, a plasma, or

microwave energy

Group C:

C1: ceramic layer separated during the thermal treatment

C2: ceramic layer separated (broken) after the thermal treatment

Group D:

D1: ceramic layer held in a clamping fixture

D2: ceramic layer held on an adhesive foil

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Applicant is required, in reply to this action, to elect one single species from

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each of groups A, B, C, and D, to which the claims shall be restricted if no generic

claim is finally held to be allowable. The reply must also identify the claims readable on

the elected species, including any claims subsequently added. An argument that a

claim is allowable or that all claims are generic is considered non-responsive unless

accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise include

all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the

elected species. MPEP § 809.02(a).

2. The claims are deemed to correspond to the species listed above in the following

manner:

A1: claims 28 and 49

A2: claim 29

A3: claim 30

B1: claims 31 and 32

B2: claim 35

C1: claim 33

C2: claim 34

D1: claim 40

D2: claim 41

The following claim(s) are generic: 27, 36-39,42-48.

3. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Each of species A1-A2 is directed to a different method of providing a metal area. Each of species B1 and B2 is directed to a different method of heating. Species C1 is directed to breaking off the ceramic substrate into single substrates during thermal processing, whereas species C2 is directed to breaking off the substrate after the thermal processing. Species D1 and D2 are each directed to a different way of holding the ceramic substrate during the processing.

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Applicant is advised that the reply to this requirement to be complete must 4. include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim Application/Control Number: 10/560,525 Page 5

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remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LIVIUS R. CAZAN whose telephone number is

(571)272-8032. The examiner can normally be reached on M-T 6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Vo can be reached on (571)272-4690. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. Dexter Tugbang/ Primary Examiner

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/L. R. C./ 7/15/2008 Examiner, Art Unit 3729